

Lab: Classes

Write a class called Rat which represents a rational number.

It has numerator and denominator.

Write a constructor that accepts all parameters.

Write another convert constructor which converts any integer that is passed as a single parameter to a rational number.

Write a default constructor that sets the rational number to value 0.

Write Accessor functions for each private instance variable.

Mutator functions for each private instance variable.

Write a private helper function, which normalize the value: If both numerator and denominator are negative, this rational number is positive.

Write another private helper function which check if the denominator is 0 which is invalid.

Write a public function that adds two rational numbers and returns the result as a Rat type.

Write a function to output the rational number as form n/d .